

DEVAL L. PATRICK GOVERNOR TIMOTHY P. MURRAY LIEUTENANT GOVERNOR JUDYANN BIGBY, MD

SECRETARY

JOHN AUERBACH
COMMISSIONER

The Commonwealth of Massachusetts

Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

11/29/2011

Barrett Hyde Assistant District Attorney, Suffolk County

Dear ADA Hyde,

Enclosed is the information you requested in regards to Commonwealth vs. Included are copies of the following:

- are copies of the following:
- 1. Curriculum Vitae for Annie Dookhan and Lisa Glazer.
- 2. Drug Analysis Laboratory Receipt.
- 3. Control Cards with analytical results for samples #
- 4. Analysis sheets with custodial chemist's hand notations and test results.
- 5. GC/Mass Spectral analytical data for samples #

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Lisa Glazer analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Annie Dookhan

Chemist

Sincerel

Drug Analysis Lab

Jamaica Plain, MA. 02130

(617) 983-6622

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 - present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- *Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- *Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.
- *Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.
- *Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- *Maintenance and repairs of all analytical instruments.
- *Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.
- *Oversee the Quality Control/Quality Assurance program for the Drug Lab.
- *Writing, revising and reviewing Standard Operating Procedures (SOPs) and Protocols.
- *Notary Public.
- *Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 - 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- *Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.
- *Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.
- *Writing, revising and reviewing Standard Operating Procedures (SOPs).
- *Trained and supervised new chemists and interns for the department.
- *Routine OC testing of products for the FDA.
- *Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- *Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- *Complete testing of chemicals for Vendor Validation Project for the FDA.
- *Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice - Forensics Professionals. (numerous trainings)

GLP/GMP training with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS trainings with Agilent Technologies and Restek.

HPLC and LC/MS/MS trainings with Waters Cooperation.

FTIR training with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Curriculum Vitae

Lisa A. Glazer

Education

Bachelor of Science Degree, CHEMISTRY January 2006

UNIVERSITY OF NEW HAVEN

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

Bachelor of Science Degree, FORENSIC SCIENCE January 2006

UNIVERSITY OF NEW HAVEN

Coursework included: Organic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus, Biology, Criminal Justice and Forensic Science courses

Employment

Chemist I, II State Laboratory Institute

(May 2007-Present)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- > Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2007.

Laboratory Technician I (August 2006 - May 2007)

University of Connecticut Chemistry Department - Storrs, CT

- > Prepared unknowns, chemical reagents and supplies for undergraduate chemistry courses
- > Set-up experiment demonstrations
- Properly disposed of hazardous waste from the experiments
- Made sure labs were being conducted safely
- Kept track of student laboratory paperwork, inventoried glassware and chemicals and helped clean glassware

Intern (September 2005 - November 2005)

CONNECTICUT STATE POLICE FORENSIC LABORATORY - Meriden, CT

- > Worked on a Pyrolysis Gas Chromatography project
- Observed in the GSR testing, Forensic Biology, DNA, Questioned Documents, Black and White Photo, Latent Prints, Firearms, Trace Evidence and Color Photo Units

Trainings

Multijurisdictional Counterdrug Task Force Training (May 20, 2008) Current Drug Trends – Methuen, MA

Multijurisdictional Counterdrug Task Force Training (May 6, 2009 - May 7, 2009) Courtroom Testimony – Methuen, MA

DEA Forensic Chemist Seminar (June 21, 2010 - June 25, 2010) Sterling, VA

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CC #_	
BOOK# 153	
PAGE # 153	
No. 000 (A. 207 No. C E (A. 140 E (A. 14 E))	

DRUG RECEIPT	PAGE # 153		
	DESTRUCTION #		
District/Unit B2 DCU			
Name & Rank of Arresting Officer LCGAVE NE	1	ID#_ 861	73
		,57	
DEFENDANT'S NAME	ADDRESS	CITY	STATE
		Dorz	MA
		D 02	M4
DESCRIPTION OF ITEMS SUBMITTED	GROSS QUANTITY	GROSS WEIGHT	SE ONLY ANALYSIS NUMBER
CARCK COMINE	19 0/3	8.96a	
CHACK COCHINE	1 p/s	4,899	
			-
			The second secon
	-		
,			
		,	
To be completed by ECU personnel only Name and Rank of Submitting Officer Received by	Worken Po.	Date 10#	5
		ECU Control #	<i>(</i>

No. Date Analyzed: 6(7/1)
City: Boston D.C.U. Police
Officer: P.O. RENZE JACKSON

Subst: SUB

No. Cont:

19 Cont: pb

Date Rec'd: 04/15/2011 No. Analyzed: 2

Gross Wt:

8.960 Net Wt; 3.94

#Tests: 12 ASS

Frelim: Cocava Findings:

cocoine

No. Date Analyzed: 617/1

Officer: P.O. RENEE JACKSON

Def:

Amount:

Quinct, QIII

No. Cont:

1 Cont: pb

Date Rec'd: 04/15/2011 No. Analyzed:

Gross Wt:

4.870 Net Wt: 0.19

#Tests: 6A80

Prelim: COCOLOGO Findings:

cocaine

DRUG POWDER ANALYSIS FORM

SAMPLE#	AGENCY BO	HON ANALYST HLL 1950
No. of samples tested: 2		Evidence Wt. OK
PHYSICAL DESCRIPTION:		Gross Wt (19): 4.9412
19 Swoll	øb .	Gross Wt (2): 0.5365
containing	of whits	Pkg. Wt:
dumky V	substance,	Net Wt:
		(1) Gross 10.2465 (2) Gross 10
		Het: 0.2039 Net: 0.
		EST NOT = 0.4149 2 = 0.20
		= 3.94,
RELIMINARY TESTS Spot Tests		Microcrystalline Tests
Cobalt Thiocyanate <u>()+weok+</u>		Chloride +
Marquis		2 TLTA (-) +
Froehde's		O'THER TESTS
Mecke's		+
PRELIMINARY TEST RESULTS		GC/MS CONFIRMATORY TEST
RESULTS Gaine		RESULTS cocune
DATE 6/15/2011		MS OPERATOR
		DATE 6-17-11

DRUG POWDER ANALYSIS FORM

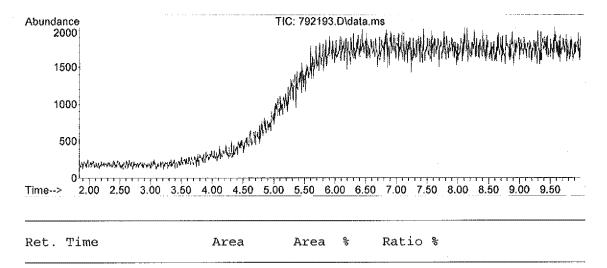
SAMPLE # AGENCY No. of samples tested:	Evidence Wt. OK.	
PHYSICAL DESCRIPTION:	Gross Wt (): 0.24	67
One Smull confoining clumky 55	of white Pkg. Wt: Net Wt: 0.192	***************************************
		2-1
		•
PRELIMINARY TESTS Spot Tests	Microcrystalline Tests	
Cobalt Thiocyanate () + week +	Gold Chloride	
Marquis HU -	TLTA (-) +	•
Froehde's	OTHER TESTS	
PRELIMINARY TEST RESULTS RESULTS GCOINE DATE 6/15/2011	GC/MS CONFIRMATORY TEST RESULTS (Ocale MS OPERATOR (SG	
	DATE 6->7-11	

File Name ; J:\06 16 11\792193.D

Operator : ASD

Date Acquired : 17 Jun 2011 2:34

Sample Name : BLANK : ASD Submitted by Vial Number 2 AcquisitionMeth: DRUGS.M : RTE Integrator



NO INTEGRATED PEAKS



Page 1

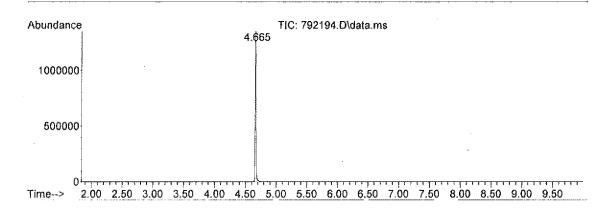
File Name : J:\06_16_11\792194.D

Operator : ASD

Date Acquired : 17 Jun 2011 2:47

Sample Name : COCAINE STD

Submitted by : ASD
Vial Number : 49
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.665	1298754	100.00	100.00

File Name : J:\06 16 11\792194.D

Operator : ASD

Date Acquired: 17 Jun 2011 2:47

Sample Name : COCAINE STD

Submitted by : ASD
Vial Number : 49
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L

C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80

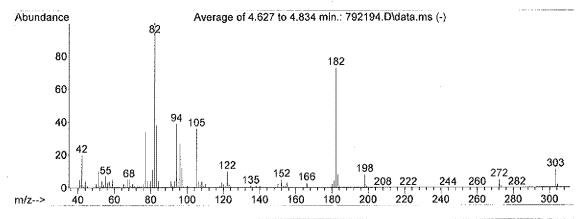
C:\Database\PMW TOX2.L

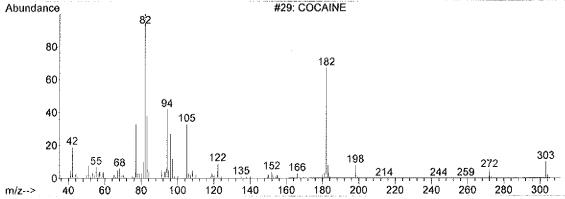
PK# RT Library/ID CAS# Qual

1 4.66 C:\Database\SLI.L

COCAINE 000050-36-2

99





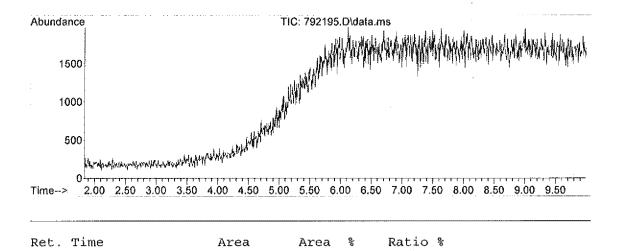


File Name : J:\06_16_11\792195.D

Operator : ASD

Date Acquired : 17 Jun 2011 3:00

Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: DRUGS.M
Integrator : RTE



NO INTEGRATED PEAKS

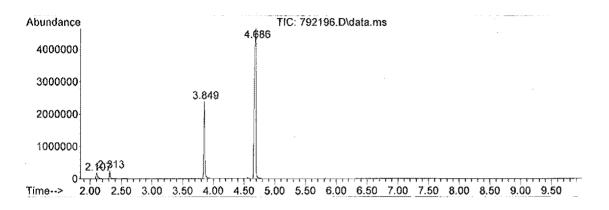


File Name : J:\06_16_11\792196.D

Operator : ASD

Date Acquired : 17 Jun 2011 3:12

Sample Name :
Submitted by : ASD
Vial Number : 96
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %	
2.107	352574	2.79	3.86	
2.313	267786	2,12	2.94	
3.849	2912725	23.01	31.93	
4,686	9122830	72.08	100.00	

File Name : J:\06_16_11\792196.D

Operator : ASD

17 Jun 2011

Date Acquired Sample Name

Submitted by ASD Vial Number 96

AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries:

C:\Database\SLI.L

Minimum Quality: 80

C:\Database\NIST05a.L C:\Database\PMW TOX2.L

3:12

Minimum Quality: 80

PK#	RT	Library/ID	CAS#
1.	2.11	C:\Database\NIST05a.L	

Ecgonidine, methyl ester

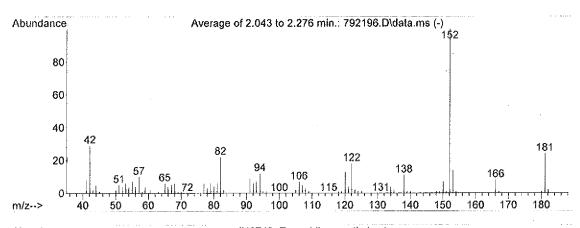
1-Cyclohexyl-2-ethylpyrrolidine

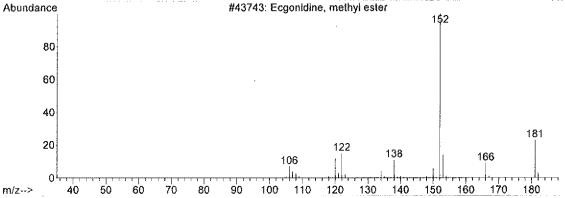
127379-24-2 98

2-Carbomethoxy-8-methyl-8-azabicycl 043021-26-7 97

Qual

47 051503-12-9







File Name : J:\06_16_11\792196.D

Operator : ASD

Date Acquired 17 Jun 2011

Sample Name

3:12

Submitted by Vial Number 96

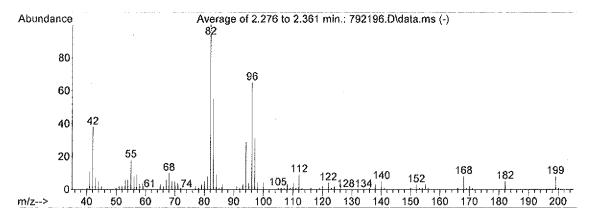
AcquisitionMeth: DRUGS.M Integrator : RTE

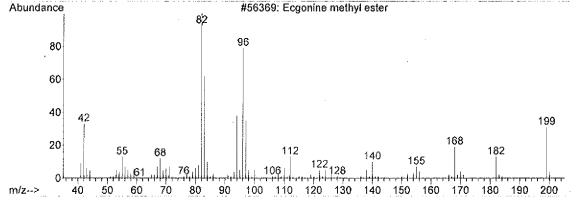
C:\Database\SLI.L Search Libraries:

Minimum Quality: 80

C:\Database\NIST05a.L C:\Database\PMW TOX2.L Minimum Quality: 80

PK#	RT	Library/ID	CAS#	Qual
2	2.31	C:\Database\NIST05a.L Ecqonine methyl ester	106293-60-1	97
		Ecgonine methyl ester	106293-60-1	97
		Ecgonine methyl ester	106293-60-1	97





File Name : J:\06_16_11\792196.D

Operator : ASD

: 17 Jun 2011 3:12

Date Acquired : Sample Name :

Sample Name : Submitted by : ASD Vial Number : 96

Vial Number : 96 AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries:

C:\Database\SLI.L

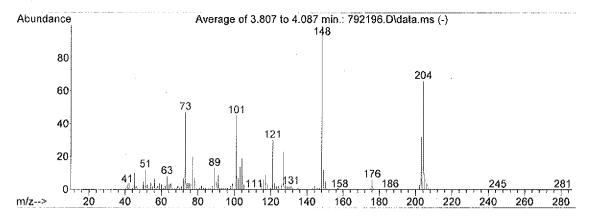
Minimum Quality: 80

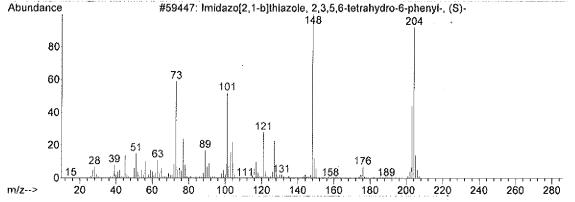
C:\Database\NIST05a.L

Minimum Quality: 80

C:\Database\PMW_TOX2.L

PK#	RT	Library/ID		CAS#	Qual
 _			***************************************	į	
3	3.85	C:\Database\NIST05a.L	•		
		<pre>Imidazo[2,1-b] thiazole,</pre>			99
		<pre>Imidazo[2,1-b]thiazole,</pre>	2,3,5,6-tet	014769-73-4	98
		Imidazo[2,1-b]thiazole,	2,3,5,6-tet	006649-23-6	98





Megh

File Name : J:\06_16_11\792196.D

Operator : ASD

Date Acquired : 17 Jun 2011 3:12

Sample Name

Submitted by ASD Vial Number 96 AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries:

C:\Database\SLI.L Minimum Quality: 80 Minimum Quality: 80

C:\Database\NI\$T05a.L

C:\Database\PMW TOX2.L

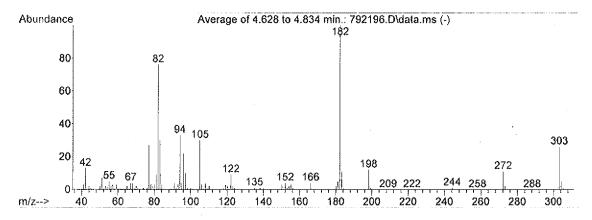
PK# RTLibrary/ID CAS# Qual

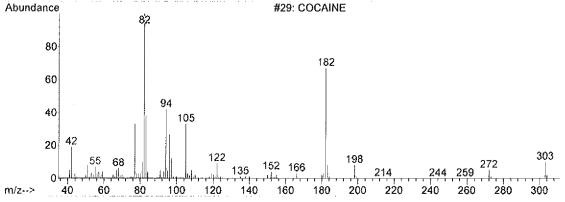
4 4.69 C:\Database\SLI.L

COCAINE

000050-36-2

99







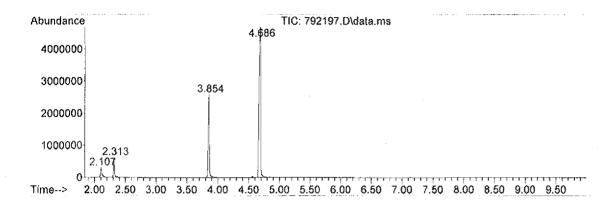
File Name : J:\06_16_11\792197.D

Operator : ASD

Date Acquired : 17 Jun 2011 3:25

Sample Name :

Submitted by : ASD
Vial Number : 97
AcquisitionMeth: DRUGS.M
Integrator : RTE



Area	Area %	Ratio %		
534134	3.69	5.43		
634390	4.38	6,45		
3471569	23.97	35.28		
9840211	67.96	100.00		
	534134 634390 3471569	534134 3.69 634390 4.38 3471569 23.97	534134 3.69 5.43 634390 4.38 6.45 3471569 23.97 35.28	534134 3.69 5.43 634390 4.38 6.45 3471569 23.97 35.28



File Name : J:\06_16_11\792197.D

Operator : ASD

Date Acquired : 17 Jun 2011 3:25

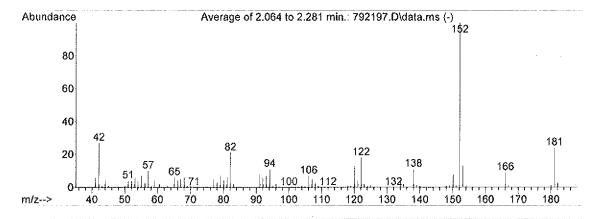
Sample Name Submitted by ASD Vial Number 97 AcquisitionMeth: DRUGS.M Integrator : RTE

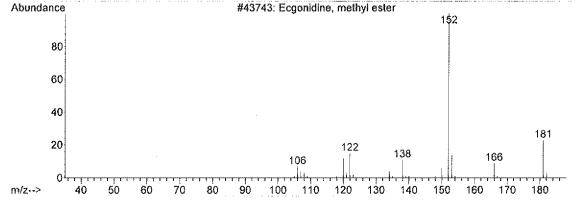
Search Libraries: C:\Database\SLI.L Minimum Quality: 80 Minimum Quality: 80

C:\Database\NIST05a.L

C:\Database\PMW_TOX2.L

PK#	R'T	Library/ID	CAS#	Qual
1	2.11	C:\Database\NIST05a.L Ecgonidine, methyl ester 2-Carbomethoxy-8-methyl-8-azabicycl 1-Phenyl-3-hydroxy-2-fluoropropene-		98 96 42







File Name : J:\06_16_11\792197.D

Operator : ASD

Date Acquired : 17 Jun 2011 3:25

Sample Name Submitted by ASD Vial Number 97 AcquisitionMeth: DRUGS.M : RTE Integrator

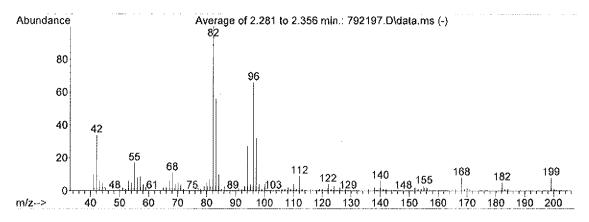
Search Libraries: C:\Database\SLI.L

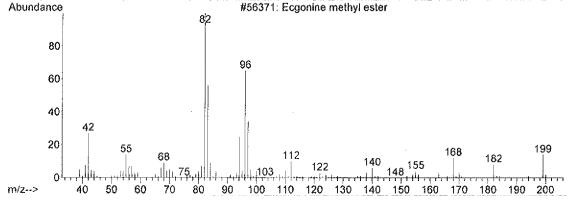
Minimum Quality: 80 Minimum Quality: 80

C:\Database\NIST05a.L

C:\Database\PMW TOX2.L

PK#	RT	Library/ID	CAS#	Qual	
2	2.31	C:\Database\NIST05a.L Ecgonine methyl ester Ecgonine methyl ester Pseudoecgonine methyl ester	106293-60-1 106293-60-1 099189-88-5	98 98 96	





File Name : J:\06 16 11\792197.D

Operator : ASD

Date Acquired : <u>17 Jun 2011</u> 3:25

Sample Name Submitted by ASD Vial Number 97 AcquisitionMeth: DRUGS.M : RTE Integrator

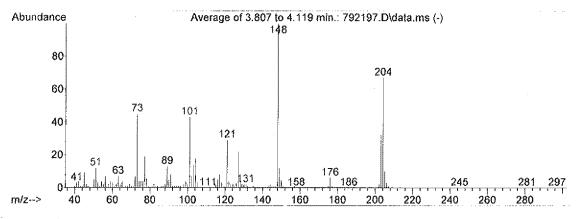
Search Libraries: C:\Database\SLI.L

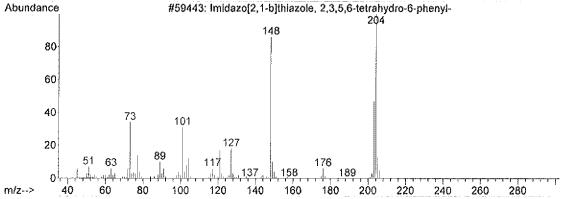
Minimum Quality: 80 Minimum Quality: 80

C:\Database\NIST05a.L

C:\Database\PMW TOX2.L

PF	C#	RT	Library/ID		CAS#	Qual
3	3	3.85	C:\Database\NIST05a.L			
			Imidazo[2,1-b]thiazole,			98
			<pre>Imidazo[2,1-b]thiazole,</pre>	2,3,5,6-tet	006649-23-6	98
			<pre>Imidazo[2,1-b]thiazole,</pre>	2,3,5,6-tet	014769-73-4	98





File Name : J:\06 16 11\792197.D

Operator : ASD

Date Acquired : 17 Jun 2011 3:25

Sample Name :
Submitted by : ASD
Vial Number : 97
AcquisitionMeth: DRUGS.M
Integrator : RTE

RT

PK#

Search Libraries: C:\Database\SLI.L

Library/ID

\Database\SLI.L Minimum Quality: 80 \Database\NIST05a.L Minimum Quality: 80

CAS#

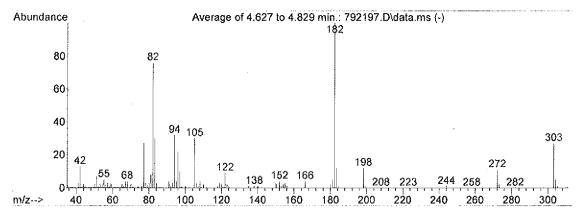
Qual

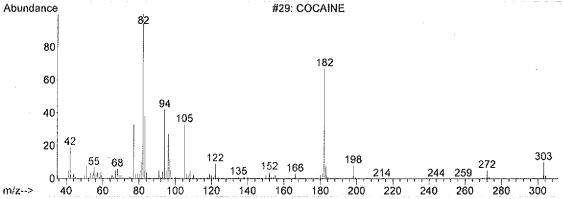
99

C:\Database\NIST05a.L
C:\Database\PMW TOX2.L

4 4.69 C:\Database\SLI.L

COCAINE 000050-36-2



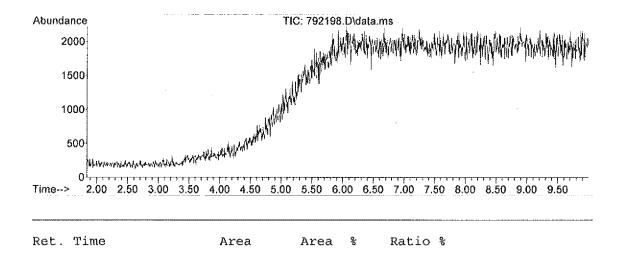


File Name : J:\06_16_11\792198.D

Operator : ASD

Date Acquired: 17 Jun 2011 3:38

Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: DRUGS.M
Integrator : RTE



NO INTEGRATED PEAKS

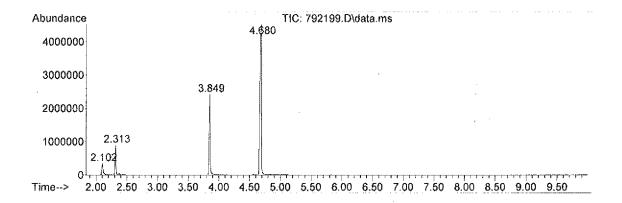
: J:\06 16 11\792199.D File Name

Operator : ASD

Date Acquired : 17 Jun 2011 3:50

Sample Name Submitted by : ASD Vial Number 99 :

AcquisitionMeth: DRUGS.M : RTE Integrator



Ret. Time	Area	Area %	Ratio %	
2.102	589495	4.57	7.02	
2.313	914472	7.08	10.90	
3.849	3011660	23.33	35.88	
4.680	8392781	65.02	100.00	

File Name : J:\06 16 11\792199.D

Operator : ASD

Date Acquired : 17 Jun 2011 3:50

Sample Name Submitted by

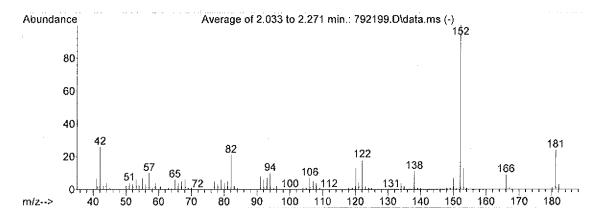
Vial Number 99 ; AcquisitionMeth: DRUGS.M Integrator : RTE

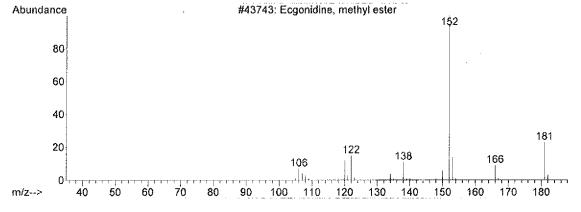
Search Libraries: C:\Database\SLI.L

Minimum Quality: 80 C:\Database\NIST05a.L Minimum Quality: 80

C:\Database\PMW_TOX2.L

PF	(#	RT	Library/ID	CAS#	Qual
1	Ĺ	2.10	C:\Database\NIST05a.L		
			Ecgonidine, methyl ester	127379-24-2	98
			2-Carbomethoxy-8-methyl-8-azabicycl	043021-26-7	96
			3.5-Dimethoxyphenethylamine	003213-28-3	43





File Name : J:\06_16_11\792199.D

Operator : ASD

Date Acquired 17 Jun 2011 3:50

Sample Name Submitted by

ASD Vial Number 99

AcquisitionMeth: DRUGS.M Integrator : RTE

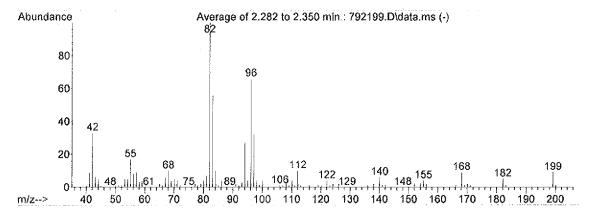
Search Libraries: C:\Database\SLI.L Minimum Quality: 80

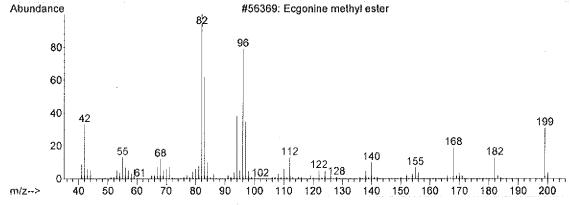
Minimum Quality: 80

C:\Database\NIST05a.L

C:\Database\PMW TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	2.31	C:\Database\NIST05a.L Ecgonine methyl ester Ecgonine methyl ester Ecgonine methyl ester	106293-60-1 106293-60-1 106293-60-1	97 97 97





Page

File Name : J:\06_16_11\792199.D

Operator : ASD

Date Acquired : 17 Jun 2011

Sample Name : Submitted by :

Search Libraries:

: ASD : 99

Vial Number : 99 AcquisitionMeth: DRUGS.M

Integrator : RTE

C:\Database\SLI.L

Minimum Quality: 80

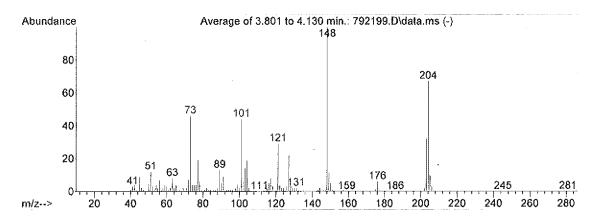
C:\Database\NIST05a.L

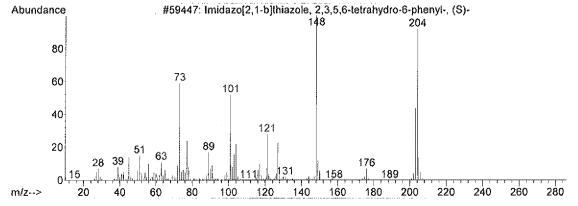
Minimum Quality: 80

C:\Database\PMW_TOX2.L

PK#	RT	Library/ID		CAS#	Qual
3	3.85	C:\Database\NIST05a.L Imidazo[2,1-b]thiazole, Imidazo[2,1-b]thiazole, Imidazo[2,1-b]thiazole,	2,3,5,6-tet	006649-23-6	99 98 98

3:50





ARSIII

File Name : J:\06_16_11\792199.D

Operator : ASD

Date Acquired : 17 Jun 2011 3:50

Sample Name Submitted by

ASD 99

Vial Number AcquisitionMeth: DRUGS.M

Integrator : RTE

Search Libraries: C:\Database\SLI.L

Minimum Quality: 80 Minimum Quality: 80

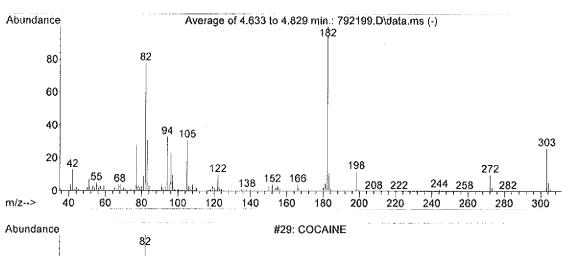
99

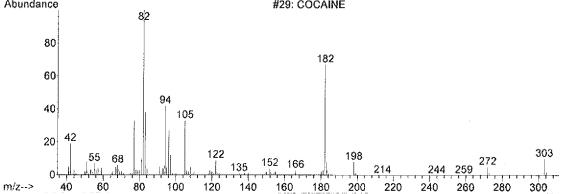
C:\Database\NIST05a.L C:\Database\PMW TOX2.L

PK# RTLibrary/ID CAS# Qual

4 4.68 C:\Database\SLI.L

> COCAINE 000050-36-2





792199.D

Mon Nov 28 14:07:26 2011

Page 5



File Name : J:\06_16_11\789290.D

Operator : ASD

Date Acquired : 17 Jun 2011 4:16

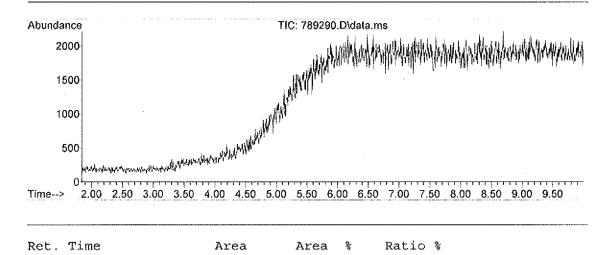
Sample Name : BLANK

Submitted by

Vial Number : 2

AcquisitionMeth: DRUGS.M

Integrator : RTE



NO INTEGRATED PEAKS

File Name : J:\06_16_11\789291.D

: ASD Operator

Date Acquired : 17 Jun 2011

Sample Name

: COCAINE STD

Submitted by

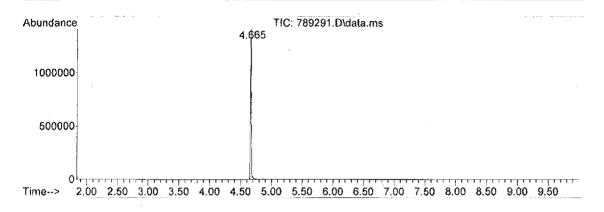
Vial Number

49

AcquisitionMeth: DRUGS.M

Integrator

: RTE



4:28

Ret. Time	Area	Area %	Ratio %
4.665	1368779	100.00	



File Name : J:\06_16_11\789291.D

Operator : ASD

Date Acquired : 17 Jun 2011 4:28

Sample Name

COCAINE STD

Submitted by

49 AcquisitionMeth: DRUGS.M

Integrator

Vial Number

: RTE

Search Libraries:

C:\Database\SLI.L

Minimum Quality: 80

C:\Database\NIST05a.L

Minimum Quality: 80

C:\Database\PMW TOX2.L

PK# RT Library/ID

CAS#

Qual

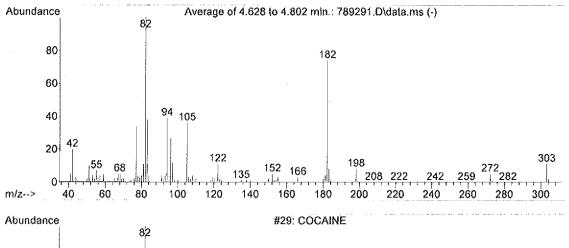
4.66

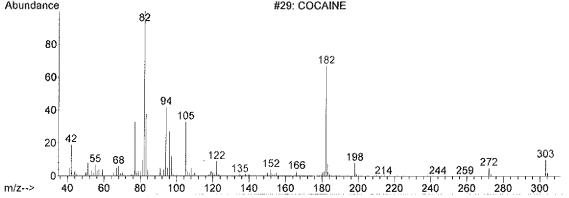
C:\Database\SLI.L

COCAINE

000050-36-2

99





789291.D

Mon Nov 28 14:07:47 2011

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